



BADGER STATE *Smoke Signals*



Serving Amateur Radio In Wisconsin

Published Monthly Since 1969

Vol. 13 No. 7 - 161st Consecutive Monthly Issue - Baraboo, Wis. - July, 1983

These Badger Amateur Radio Society (BARS - W9YT) members were at the 1983 Expo UW shindig, and the project shown won second prize for that fine club. Shown here are (left to right) John Fischer, N2NU; Dan Thorson, WB9YSE; Dave Birdsall, N9BYK; Dave White, WD9FCP; Scott Gee, WB9RRU; Rich Bann, KA0BZK; Steve Dubberstein, WB9PYE; Mike Zeug, K9EC; Mike Taylor, AC9C (Top score in 1983 Wis. QSO Party) and Kevin Kolpitzke, WB9YHB.

Details on that winning setup (A laser-coupled patch) in a story by BARS Secretary Steve Polishinski, WB9YSD, in this Megaisue.



Badger State Smoke Signals

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Subscriptions:

1 yr. \$ 6.00
 2 yr. 11.50
 3 yr. 17.00

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BADGER AMATEUR RADIO SOCIETY, W9YT WINS AWARD

This year at the Engineering Exposition held on the University of Wisconsin Madison Campus, the Badger Amateur Radio Society (BARS) won second prize in the club category of competition.

Our project - the W9YT repeater controller and phone patch - represents the work of many BARS members over a several years time. The following is a short history of the repeater.

The repeater itself is controlled by an 8085 micro-processor board built by John Boos, N0BMT. He built it as a course project in the first part of 1982 to run a Motorola repeater at the BARS shack. A Touchtone decoder was included in the system to allow us to make the controller send cw messages and other "neat things" like disabling the squelch.

In the fall of 1982 the repeater was moved to the top of Van Heise, the highest building in Madison. (except for the Capitol) At that time Steve WB9PYE, the person most familiar with the repeater suggested that the club enter the repeater in Expo in April of 83. Plans started to quickly jell.

Steve was planning on working with a VOTRAX chip (a computerized speech synthesis chip) for an independent study and then putting it on the repeater. We also wanted to add a phone patch to our repeater, but at our new site this was a problem.

The phone line installation cost and monthly bill would be prohibitive. We decided on a unique way to add a phone patch. In a system separate from the repeater, we would have a receiver listening to the output of the

repeater. This would contain the actual phone patch. To link the phone patch back to the repeater we would use a laser.

BARS members worked on the project in separate parts. Kevin, WB9YHB developed a way to modulate and then detect the laser. He also designed the actual phone patch. Rich Bonomo, WB2WXH/9 got the laser on loan from the EE department in the first place. Steve WB9PYE worked on the VOTRAX of course, and installed it at the repeater.

Yours truly, WB9YSD built a new power supply for the repeater controller and VOTRAX. Dan WB9YSE worked on the audio amp needed to modulate the laser. Mike AC9C and myself worked on the Touchtone decoder needed at the phone patch. A week before the Expo we brought the repeater back to engineering building and assembled everything into a complete system.

We must have done something right as the final construction and the debugging was relatively Murphy free. Our display at Expo went very well and we were pleased to get second place in our category.

The repeater is back at Van Heise and we are planing to get the phone patch operational again this fall, although the laser link will be replaced with a more practical 450 MHz link.

Recently we replaced our receiver front end on the repeater and have increased the repeater range to about 40 miles around Madison. The next time you are in Madison dial up 146.085, (+600 transmit) and hear our VOTRAX id-er. A Touchtone pound (#) will activate the VOTRAX id-er on demand.

73 and hope to hear you on .085

Steve, WB9YSD

The National Communications System (NCS) (see QST September 1982, p. 81) and the ARRL have established a Memorandum of Understanding. NCS Deputy Manager John G. Grimes and ARRL President Victor C. Clark, W4KFC, signed the agreement on June 1. The Board of Directors authorized President Clark to enter into the agreement at Minute 63 of the 1983 Annual Meeting. The NCS is an alliance of government agencies established to ensure that reliable communications are maintained during emergencies. This includes the establishment of emergency communications during nuclear attack.

The NCS recognizes that the ARRL is the principal organization of the U.S. radio amateurs, and because of its organized emergency communications systems, training and resources, can be of valuable assistance to the government agencies during a communications crisis.

Some of us are like a fence, We run around a lot without getting any place.

It never takes much to satisfy a person who's satisfied with himself.

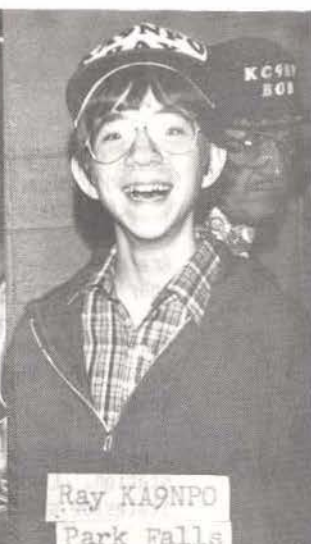
What's a Swapfest without people?
Here are a few taken at the MARA
doings in April! k9zz pix



Paul-Portage



Roy, K9FHI, Section
Manager, Wis. Section



Ray KA9NPO
Park Falls



Herb W9LA



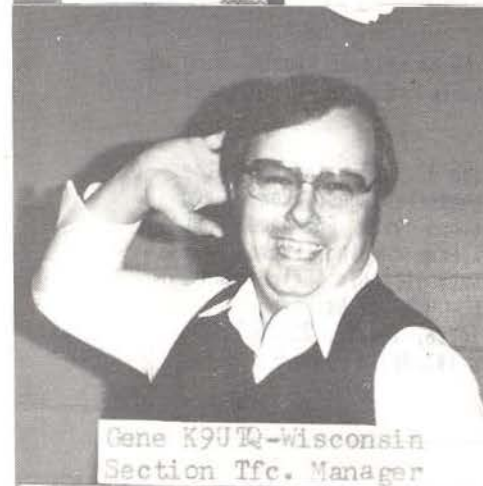
KB9RB
Ruth Banks
Fox Valley

Chas. Banks K9IS

Arnie K9DCJ



Arden W9IHB Madison



Gene K9UTQ-Wisconsin
Section Tfc. Manager



Dave Knaus, WA9POV, Affiliated
Club Coordinator, Wis. Sec. ARRL



Jim, WB9UQT, Baraboo



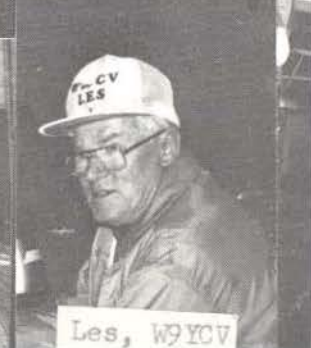
Doc, K9YV
Madison



Audio Trades Exhibit-Madison



George, W9RTP



Les, W9YCV

LET'S DISCUSS QSLING

by Woody Minar, K9EF/ET

U.S. Embassy, Addis Ababa, Ethiopia

Article after article has been published year after year in every Ham magazine and still, Hams do not know how to efficiently QSL. Almost every Amateur Radio operator knows how to QSL but far less know how to efficiently QSL - that is, to get a good return rate on QSLs sent.

I have three current examples of how NOT to QSL to a DX station. Last week I received three QSL cards from two stateside stations and here's their story

N2-- sent me two cards with an SASE enclosed. Now, this is good. However, the first card is for a QSO on 8 DEC 1979 with K9EF/H18. The second is for a QSO on 4 OCT 1980 with K9EF/8R1. He sent his cards to my address in Virginia 3-1/2 and 2-1/2 years after the QSOs! I'm sorry to say that there is no way I can confirm these QSO's now because my logs are in storage and will be until I return to the states in about 10 years.

The proper way to QSL for these QSO's was to send an SASE to my then QSL manager the DAY AFTER the QSO. The time spent listening to a DX station to announce QSL information is well worth the time - i.e., a QSL card will be received if the proper course of action is taken.

The third card is from N3A-- for a QSO on 21 June 1980 with K9EF/8R1. The card with 13¢ postage on it was sent over 2-1/2 years after the QSO! The kicker is the note written in the remarks column: "...sorry it has taken me so long to confirm contact."

I made over 26,000 contacts from Guyana. If only one-fourth of these contacts sent me cards without an SASE the postage would have been \$1,300.

The points are:

1. QSL the same day or the next day after the QSO.
2. Follow the DXers QSL information to the letter.
3. Send an SASE, if a stateside manager, and put the QSO information on the SASE in case the QSL card is lost. If a DX manager, then send enough IRC's to cover the return postage.
4. Be accurate and ensure accuracy in the QSO info -- Date, Time, Frequency and, above all, have the correct callsign. If you're off by five minutes the QSL manager will have to look through probably 50 callsigns until he finds yours. I have 30 states and about 10 countries confirmed from HR1-land and I've never been there!

If we can't educate the nation in the art of QSLing, then let's start a trend in Wisconsin to try to achieve a 100% return rate on QSLs.

Start by inviting a prominent, busy QSL manager to speak at your club meeting; they'll be very enlightening!

73 and On Wisconsin!

--Woody

Swapfest Corner

July 9: South Milwaukee ARC Hamfest at American Legion Park near Ryan Road, not far from I-94. A goodie, lots of swappers and buyers. Suds available.

July 16: Sheboygan County ARC Lakeshore Swapfest and Public Brat Fry. Wilson Town Hall at Sheboygan, Wis. (Business 42 south of city) From 10 a.m. to 4 p.m. Free tables. (advance deadline June 30, 1983) Admission: \$2.50 in advance or 3.00 at the door. Talkin: 2 meter (repeater 66/66) and 52. Camping available at nearby Terry Andrae State Park.

August 14: Hamfesters Radio Club will hold their 49th annual Hamfest and the celebration of their 50th year of service to Amateur Radio in the Chicagoland area at Santa Fe Park, 91st and Wolf Road in Willow Springs IL (near Chicago) Manufacturer's displays, Swapper's Row, early bird coffee, clowns and refreshments. Talk-in on 146.52. Tickets \$2.00 advance or \$3.00 at the gate. P.O. box 42792, Chicago IL 60642.

August 20: Hobby Fest '83 sponsored by the Green Bay Mike & Key Amateur Radio Club. General admission from 8:00 am to 4:00 pm. To be held at the Pamperin Park in Green Bay, Wisconsin. Family picnic grounds, free parking, radio swap, crafts, computer hard and soft ware, experimental items, radio/digital displays and demonstrations and a special link-up with the new phase III satellite! Admission \$1.00 (kids under 12 free). Table reservation \$4.00 per 4 foot section. For more information contact Pat Schwartz, KA9MHI, 1243 Crestwood Dr., Green Bay, WI 54304. (414) 499-1679

August 21: The Fox River Radio League Hamfest will be held at the Kane County Fairgrounds Exhibition Hall in St. Charles IL. Tickets \$2.00 or \$3.00 at gate. Jerry Frieders, W9ZBP, 1501 Molitor Rd., Aurora, IL 60505. Talk-in on 146.94.

September 10: WNA picnic to be held at South Wood County park near Wisconsin Rapids - Details forthcoming.

September 24-25: Radio Expo 83. Displays of the latest in person-to-person communications...How-to and Technical sessions...Discussions with FCC and ARRL spokesmen...Ladies' program...Free camping...Home computer technology. Lake County Illinois Fairgrounds. Rts. 45 & 120, Grayslake, IL. Halfway between Chicago and Milwaukee. Talk-in 146.16/76, 146.52, 222.5/224.1. Tickets \$4.00 for both days (\$3.00 in advance) Box 1532, Evanston, IL 60204

For Sale: Courier Caravelle II 23 channel CB base station. Complete with desk mike. Rig is ideal for 10-meter AM or FM conversion. Asking \$75.00. Jim Romelfanger, K9ZZ, 1414 Martiny Ct. #6, Baraboo, Wisconsin 53913

For Sale: Rohn tower, 3-10 foot 256 new sections, 1-3 foot new base, 1-10 foot 200 used, and 1-20AG top section used. All for \$200.00. Bruce Aker, Portage, WI (608) 742-2656.

from THE ARRL LETTER

Ground work for the Garriott STS-9 Amateur Radio operation is moving ahead on several fronts. ARRL Space Program Manager Bernie Glassmeyer, W9KDR, has been ironing out the specifics of the operation with NASA officials. Details will be made public through the popular Amateur Radio press as things progress. NASA expects to be able to provide us with the flightline (timetable) of the operation within the next few weeks.

That will tell us on which orbits we can expect WSLFL to be operating. Uplink (ground-to-shuttle) frequencies will be 144.910 to 145.470 MHz with 20-kHz increments. Downlink (shuttle-to-ground) frequencies will be 145.510 to 145.770 MHz with 20-kHz increments.

ARRL Public Information Coordinator Peter O'Dell, KB1N arranged a telephone conference call for the evening of June 2nd with a number of hams holding strategic position in the media.

During that meeting a public relations course of action was set that should maximize the press coverage of the first ham in space and the hams who work him. The plan, largely the brainchild of Steve Mendelsohn, WA2DHF, and Rich Moseson, N2BFG, will involve the ARRL and AMSAT field organization.

KB1N has also arranged another conference call with representatives from the major national Amateur Radio Publishers. Details of the operation and all pertinent information from NASA will be relayed to this group. Now is the time to start thinking of ways to promote STS-9 in your area.

Begin making contacts with the local media now, start cleaning the shack and make sure you can integrate a tape recorder into your station so that you have a permanent record of this exciting event -- some reporter may want to play your tape over his station or transcribe it for his newspaper. Now is the time to get the bugs ironed out.

FCC CHANGES LOGGING, ID RULES

The FCC has eliminated the requirement that amateurs keep logs of routine operating activities. This action will be effective immediately upon publication in the Federal register, probably in a few weeks. Repeater station trustees will no longer need to tape-record autopatch and other third-party messages.

Amateurs may, if they desire, continue to keep voluntary logs, and FCC engineers-in-charge may still mandate log-keeping in specific cases. Details of non-routine operations, such as repeater data when certain limits are exceeded, auxiliary and remote control operations, and names and call signs of guest control operators would still be required to be kept as part of the "station records."

In a separate action, (FCC Order 83-247), effective June 15, the FCC will no longer require that amateurs using RTTY codes or fast-scan TV identify in international Morse Code of plain language voice. If using Baudot, ASCII, or AMTOR, stations may identify using the particular digital code being used for the communication. If using a different digital code (only

allowed above 50 MHz), the amateur may identify using Baudot, ASCII, or AMTOR. Fast-scan TV transmissions may be identified in video using the U.S. 525 scan-line standard described in Part 73 of FCC's rules.

The cw or plain language voice i-d requirement will still apply to facsimile and sstv transmissions. Amateurs may still use, if they wish, cw or voice to i-d RTTY or fast-scan TV as at present. The FCC dispensed with the prior notice and comment provisions of the Administrative Procedure Act claiming that "it is un-likely that any objections would be received in view of the obvious benefits which are being conferred..." It should be noted, however, that under the new rules an amateur hearing a RTTY transmission, for example, would not be able to determine if it is of amateur origin unless he or she possessed equipment capable of demodulating the particular digital code in use.

Additionally the maximum frequency shift for digital communication will be raised from 900 to 1000 Hz in the hf bands. Above 50 MHz the maximum shift will depend on the signalling rate used.

Finally, amateur interim permits are now renewable, since interim renewals may be justified when there is a delay in issuance of permanent operator and station license.

late update: The FCC's elimination of Amateur Radio station logs became effective on June 9.

ARRL membership figures for the month of May were released on June 2. There was a decline of approximately 400 during the month compared with a decline 2,900 during May 1982. General Manager Sumner remarked: "Still, I would have expected to see a slight increase during the month as a result of late returns from the promotional mailing; apparently this was offset by relatively few new members from other sources, and non-renewals. This again underscores the fact that we must all try to recruit more members to our League."

The ARRL Membership Referral Program will be under way soon. For each new member you bring in, you will receive a certificate good for a free book. The books offered range from the new FCC Rule Book (one certificate) to a current Radio Amateur Handbook (three certificates). Detail will be in QST for July.

The officers, directors and staff of ARRL (and BSSS) wish to congratulate Bill Pasternak, WA6ITF, and the crew of West Link Radio News. This week, West Link will air number 300 in their series of Amateur Radio news shows.

The FCC and the ARRL will work together on a project to test and evaluate RFI filters being sold to consumers. FCC's Chief of the Regional Service Division, Joyce Davila, is in charge of the project. The filters will be tested at the FCC lab in Laurel MD with the assistance of the ARRL Technical Department. The League

will publish the results as a service to our members. We hope this will help solve the aggravating problem of an irate TVI complainer who installs a TVI filter and finds that it doesn't work (for those cases where a filter would solve the problem).

OSCAR 8 is in trouble. Satellite users are asked not to operate any of the transponders. The problem appears to be "carbon copy" of the OSCAR 7 battery problem -- the batteries are not holding their charge properly. Battery voltage is so low that even telemetry signals are erratic. Telemetry data might tell us what is going on. Please send any telemetry information from the satellite to Bernie Glassmeyer, W9KDR at ARRL Hq.

PHASE IIIB LANCHED -- OSCAR 10 IN ORBIT

OSCAR 10 is in orbit. In a "picture perfect" launch, Phase IIIB lifted off from Kourou, Fr. Guiana at 1159 UTC on June 16. AMSAT-OSCAR 10 was "born" at 1216 UTC when the satellite separated from the Ariane launch vehicle. All satellite systems are "go."

The first burn of the kick motor was scheduled for apogee number four, but because the satellite's attitude (sun angle) is not optimum, the kick motor firing will be delayed until somewhere between July 1 and 4. This first firing of the kick motor will raise OSCAR 10's perigee. Three to seven days later, the kick motor will fire again, and put the satellite into its proper inclination of 57 degrees.

The first stations to hear the new satellite's telemetry data were ZLIAOX, JH4PBQ, JA5XPN, JA7IE, JR4BRS, JR1SWB, and JABDXB between 1444 and 1445 UTC.

OSCAR 10's general beacon will transmit on 145.810 MHz on CW or 400 baud PSK. The beacon can be heard only between 0000 and 0029 UTC each day and will be turned off for the remainder of the day to conserve power. Satellite users are asked to relay telemetry data via the AMSAT nets.

The transponder will not be available until the kick motor fires for the second time, when the satellite achieves proper inclination. Since OSCAR 10 is still a youngster, changes in the orbital and operational data will be frequent until the permanent orbit and attitude is established. Stay tuned to AMSAT and WIAW bulletin frequencies for OSCAR 10 status updates.

ARRL BULLETIN NR 38, MAY 27, 1983

At the FCC open meeting May 26, the Commission adopted a Notice of Proposed Rulemaking outlining minor changes to the hf RACES segments and proposing the adjustment of 2 meter RACES frequencies to conform to regular amateur practice. The comment deadline for this NRPM has not been announced as yet. (late note: Comments are due by August 2; reply comments are due by September 1.) At the same meeting, FCC adopted a Report and Order deleting most logging requirements, including those for third party traffic. The effective date will be announced in a later bulletin. (note: went into effect on June 9.) Details on these FCC actions will be forthcoming in QST AR

ARRL BULLETIN NR 47, JUNE 15, 1983

Because of delays in mailing new Novice licenses, the FCC office in Gettysburg, PA, is providing applicants who have passed the Novice exam with call signs and permission to commence operations immediately if the call sign has been issued by the FCC computer. If you, or someone you know, has been waiting five or more weeks for a new Novice license, call the FCC in Gettysburg at 717 337 1212 AR

ARRL BULLETIN NR 52, JUNE 21, 1983

The State Department has informed ARRL Hq. of a new third party traffic agreement between the United States and Swaziland, Prefix 3D6. This agreement became effective June 26, 1983 AR

Items of Interest: New upgrades: Paul Amend, KA9OBP, Portage, Novice to General. Merle Holmes, WB9 Station Entirely Junk, Portage, Advanced to Extra. Will he change his call?...yup. Hope you get a good 'un Merle!... Bob DeLoughry, KA9PPK, Portage, is emitting and receiving RF with a Century 21 and having much fun...Chuck Luyster, KC9 No Hope, up Fox Valley way, worked a Canadian some time back. It was a kilowatt QSO, and since Chuck was going to VE3 land, he hand-delivered his QSL to a very surprised VE3! Now, who else would drive a kilowatt to hand-deliver a card. There was a Hamfest there, and that is where the presentation took place.

Gerry von Klein, WA9GYF, La Crosse, writes to tell us that the La Crosse area Hams are having a picnic on July 9 at Veterans Park in West Salem, Wis. sponsored by the Tri-State repeater group (37/97), all welcome. Gerry is also a tuba tooter! A man of many diverse talents indeed. Tnx Gerry. Gerry also sez his illness seems to be under control now. Great!...

k9zz

We traveled to Princeton Illinois for the annual Starved Rock Radio Club Hamfest along with many other Badger swappers. We were disappointed to miss meeting Central Division Director Ed Metzger, W9PRN who was suddenly taken ill the night before. We are pleased to hear that he has completely recovered with no problems. ARRL HQ was represented by General Counsel Chris Inlay from Washington D.C. The Central Division was well represented at the ARRL booth by Vice-Director Howie Huntington, K9KR. -k9en

Condolences from everyone go to Jim Romelfanger (K9ZZ) and his sister Mary on the death of their mother, who passed away on June 20, 1983. -k9en

Our nation's not apt to be overcome
By alien armies or looters--
But someone might pull the master switch
And shut off all the computers

-- George O. Ludcke.

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      Y      T      A A      RRRR      C
      Y      T      AAAAAA      R   R      C
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The usual quorumless meeting was held June 14 in room 34 of the Baraboo Civic Center. However, the also usual FB bull session was held. Treasurer Jim Decker, WB9UQT, reported a balance of \$260.26 at meeting time.

Those attending the June meeting were the following faithful:

Ken Ebner, K9EN, Portage
 Harry Mayland, K9FFT, Baraboo
 Duane Grotophorst, KA9HKL, Sauk City
 Steve Schwoegler, WB9RNL, Wis. Dells
 Jim Decker, WB9UQT, Baraboo
 Bob King, KA9GNY, Baraboo
 Ken Johnson, K9DZG, Mazomanie
 Jim Romelfanger, K9ZZ Baraboo

K9EN covered Westlink and ARRL Letters. We then adjourned to Henderson's for some chow and more good conversation. Duane, KA9HKL, gave us a rundown on two-meter SSB and CW conditions as of late. He took part in a 2-meter contest, working about ten sections. Good job, Duane!

YTARC Classes are winding down, and it looks like we'll have about four more new Novices in our area. Written tests will have been given by the time you get this issue. This has been one of the finest classes I've had the pleasure of working with. The help of Bob King, KA9GNY was invaluable; I've never seen a better code instructor than Bob. With the new Novices here in this area, plus some others, YTARC membership will grow and we hope to have them with us for many years. The students really did their homework...and they did it well! Thanks to them for being so willing to invest their time and effort...that makes us all feel good...and proud, too. k9zz

The Fall YTARC Fish Fry is set for Friday, September 16 at Pierce's Supper Club, Baraboo. Entertainment is planned. Price for a complete fish dinner will be just \$5.25. Every one is welcome and we'd like to see YOU and your family and friends, too. Door prizes also.

1983 raffle will soon be underway, and we hope you will ask for and sell some tickets. Our goal is to sell 500+ tickets. If we sell that amount, about \$400 will go into the equipment reserve fund. (See, when that fund is enough for YTARC to make a purchase, it would indeed be great to have enough Full members at a meeting to decide what to buy and how the gear will be used.) Will you help YOUR club and sell tickets? Will you help your club when the time comes - and make the decision what to buy? The fund was proposed and adopted and now those wanting the funds don't come. How neat. I can't figure it out - no one else can, either. We will wind up a rich club with no way to use the money. Howcum? k9zz

Sentence Sermon

The crudest lies are often told by silence.
 --Robert Louis Stevenson

No member birthdays this month

YTARC Meetings:

Wed July 13, Thurs Aug 11, Mon Sept 12, Tues Oct 11,
 Wed Nov 16, Thurs Dec 15

Meetings are held in room 34 of the Baraboo Civic Center, Baraboo, Wisconsin.

There is no formal program scheduled for the July and August meetings. There will be a brief meeting of the executive committee followed by an informal session among the membership (eye-ball QSOs). All members are invited and urged to attend. Regular sessions with formal programs (to be announced in Smoke Signals) will begin again in September

The 52 Net has been suspended temporarily. More later.

YTARCers: If you would like to see your call/name in BSSS, send your news items to Jim Romelfanger, 1414 Martiny Ct. #6, Baraboo, Wis. 53913. We'd like to know what you're doing -- and so would our readers.

--k9zz

Badge State Smoke Signals is well off the ground -- we have quite a few individual subscribers, plus the Wisconsin Nets Association monthly at about 200 per month, MARR quarterly at about 160 per issue and YTARC members all getting BSSS. The mailing for this issue will exceed 500 copies to persons interested in Badger State Amateur radio.

All in the family

A veterinarian quit his practice and successfully ran for the Legislature. In the midst of a bitter debate one day, an opponent asked with a sneer:

"Isn't it true you're actually an animal doctor?"

"Indeed it is," replied the doctor. "Are you ill?"
 --Edgerton Reporter

Slurp or swim

Waiter: "May I help you with your soup sir?"

Diner: "What to you mean? I don't need any help."

Waiter: "Sorry, sir. Judging from the sound, I thought you might wish to be dragged ashore."
 --Edgerton Reporter

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ARRL SECTION MANAGER

Roy A. Pedersen, K9FHI

510 Park St.

Juneau, Wisconsin 53039

Howdy folks,

It sure is nice to see all those who participate in C&D and D9RN, thanks much, it's very much appreciated.

Just like to mention that we do have a Technical Coordinator now, --Richard Regent, K9GDF from Milwaukee. I'm sure he will do a good job.

The nets of Wisconsin are doing OK, summer doldrums are taking over, but they still manage to do a good job.

I hope everyone listened to the National Teleconference, it was very interesting, next one is in September, I believe.

The spring QCWA banquet had 144 in attendance, 9 received 50 year certificates. 2 of them have over 60 years as a Ham. Congratulations to all.

I have notified the WNA via a letter at the June meeting that I will not be seeking reelection as SM, so when my term is up in June 1984, I will be through. I suggest you start looking for someone now. I will help my successor to get started in the reports. It has been a real pleasure to work with you fellow Hams, I will continue to support the nets as I have in the past.

73,

Roy Pedersen, K9FHI
S.M. Wisconsin

Affiliated Club Coordinator
Wisconsin Section ARRL

Dave Knaus, WA9POV
6237 N. Lincoln Creek Dr.
Milwaukee, Wisconsin 53218

ARRL AFFILIATED CLUBS
THE SPECIAL SERVICE CLUB

The Special Service Club program became effective on March 1 and has opened up new opportunities for ARRL Affiliated Clubs to actively participate in the expanded role of the League's Field Organization. Wisconsin clubs have been among the most active affiliated clubs in the country - let's keep that tradition alive through the SSC program.

What is a Special Service Club? The SSC program was detailed in the December 1982 issue of QST (P. 62) and this is worthwhile reading for club officers and members who might be interested in their club becoming a SSC. Briefly, an affiliated club would qualify as an SSC by having established continuing, working programs

in each of the following categories: Public Relations, Emergency Communications, Training, Technical Advancement, Other Operating Activities and Miscellaneous Activities. The goal of the SSC program is to establish affiliated clubs as the main presence of Amateur Radio in their respective communities.

The specific requirements to qualify in each of the above categories are flexible as the SSC program is part of the new expanded Field Organization of the ARRL, the administration of which is separate from the ARRL Headquarters level administered functions. The programs of each SSC in these categories must, however, be REAL and ONGOING programs, not just occasional or annual activities.

It may be difficult, at first, to imagine how your club can manage to fulfill all these functions, but with a little creativity and promotion within your club, I am confident that many types of activities and variations of programs can be recognized as fitting into the overall category requirements.

An area which will provide a real challenge to Affiliated Clubs is that of administration of licensing exams, if the League's proposal to the FCC is adopted in whatever form. Clubs which have successful training programs already in place will find this new task easier, however, the examining function might more appropriately belong in Miscellaneous Activities since it would be primarily an administrative function.

If you are a member or officer of an Affiliated Club, carefully study the QST article and consider how your club can implement the programs required for SSC. Then get the discussion going within your club to get the ideas and feelings of all your members into the process of deciding whether your club is interested in becoming an SSC. If you can't find your copy of December QST and would like a copy of the article, send me a note and I will send you a copy.

73,

Dave Knaus, WA9POV
Affiliated Club Coordinator
Wisconsin Section, ARRL

WISCONSIN SECTION TRAFFIC MANAGER

Gene Santoski, K9UTQ

Wisconsin Rapids WI

Well, here we are, back in the summer doldrums insofar as traffic activity is concerned. Think of it, when traffic count is up on the highways, it is down on our nets. The solution to that problem is easy - run HF mobile!

Seriously, our nets are not doing all that bad. The month of May is usually the beginning of the summer slump but May traffic is up a bit this year.

The net by net standings thru the end of May follow:

NET	CHECKINS	TRAFFIC OFF.	TRAFFIC CLRD.
BEN	3460	1376	1229
BWN	6560	7230	7218
NWTN	2215	201	201
WCWTN	2314	182	162
WIN/E	1591	792	635
WIN/L	1357	774	579
WNN	993	399	294
WSSN	1037	406	292
WSBN	5032	1871	1746
TOTALS	24559	13231	12356

The total time thru the end of May was 39,597 minutes which computes to 660 hours or 27.5 days of net time.

When you stop to think about it, the drop in net activity during the summer months is not because there is no traffic to handle. Actually, summertime offers special opportunities for a steady supply of messages for the traffic mill. People travel and want to keep in touch with the folks back home. Amateurs in resort areas can get all the traffic they can handle if they want. All it takes is a brief visit with the resort owner explaining how our traffic system works and leave your number. They can then contact their tenants to see if they are interested in taking advantage of it.

Whether it's summer or winter, the only cure for low traffic totals is for amateurs to originate more. No traffic will ever get into the system unless somebody originates it.

The biggest stumbling block to getting traffic is not the public but amateurs themselves, especially those who sit back and do nothing themselves and sneer at 'traffic hounds.' Those who ignore traffic are avoiding the very foundation stone of Amateur Radio - relaying of traffic. That was its original excuse for being. And, although times have certainly changed, the basic fundamentum of Amateur Radio today is still public service.

There's nothing deader than a traffic net that never handles any traffic! Even if you don't have any way to solicit it from the public, can't you send an occasional message to a friend or relative in another part of the country? Even if you don't want to participate in traffic handling yourself, any traffic you can put into the system is much appreciated.

Another solution to the lack of activity is to encourage newcomers in Amateur Radio to get into traffic handling. Chuck, KA9HPQ, Wisconsin Novice Net Manager mentioned at the last WNA meeting in Iola that many people have upgraded their licenses and are leaving the novice net for the phone nets. This is fine but we need new people to fill the void left by them in the novice net. If you are involved in novice training classes, be sure to make them aware of the National Traffic System, its function and purpose. Explain to them that it is their heritage as Amateur Radio operators. Encourage them to check into the novice net when they get their license.

It wouldn't hurt us old-timers to blow the dust off our keys once in a while and check the novice net either. They will go plenty slow so poor CW ability is no excuse! Chuck will be glad to have you check in.

Realizing that this is read (I hope) by the general ham community now that the WNA Bulletin and Smoke Signals have merged, I want to encourage any and all amateurs who have not participated in traffic handling work, to listen in on our nets and give it a try. You will be most welcome at any time. Don't be shy or afraid that you will get balled out for not knowing what to do. We all had to start somewhere.

If you want more information on net operating, drop me a card (better yet send me a radiogram) and I will see that you get all the information you need to get started. WE WANT YOU!!

Less than 1 percent of the amateurs in the United States are involved in traffic handling. I for one would sure like to see that percentage increased greatly.

There were 45 who made Brass Pounders League (BPL) last November by handling over 500 message units. They handled a total of 46,500, or an average of 1,033 per station, and that represents about one-third of all the traffic handled on the amateur bands and reported to the Section Managers. Most of the remainder was handled by about 300 other amateurs with totals of 100 or more, with perhaps 10 percent left for the thousands or so who reported totals less than 100. What about the other 400,000 amateurs!

Many of you who read this no doubt heard my traffic training sessions on the Baraboo (28/88) and Wausau (22/82) repeaters this past Winter. I do hope that many new people became interested as a result of this.

While on the subject, I want to take this opportunity to apologize for the several times that training was not held when scheduled. This was due in part to some personal commitments that came up from time to time, and being human (I think), I did forget a couple of times. Time does have a way of getting away from us on occasion. I will try better next time.

I recently received from ARRL headquarters, a supply of LOCAL NET CERTIFICATES. These are issued to those who are active in local VHF nets. The West Central Wisconsin Traffic Net and the Northwoods Traffic Net fall into this category.

Technically, any net that is not sectionwide in coverage is considered to be a local net. It still qualifies an NTS net if it provides liaisons to a Section net and, in turn qualifies as a WNA Ltd. affiliate.

So if you are a current holder of a certificate for either the NWTN or the WCWTN, let the respective net manager know when it is due for renewal. He in turn will notify me and I will then issue you a LOCAL NET certificate. This will bring it all into better perspective - long overdue.

Also, Net Managers should notify me of their Net Control and Liaison stations so that stickers can be issued reflecting that status to be applied to their certificates.

Remember, to remain a member of a net, you have to remain relatively active in that net. The Net Manager is the final judge on who does or doesn't get their certificates renewed based on activity.

I now issue Official Relay Station (ORS) appointments. Check the ARRL Operating Manual for details. If you qualify, let me know and the appointment will be made. These are good for two years as are all Field Appointments. If you already have ORS, check your certificate to see if it is current.

I will not say much about the WNA BOOSTER plan adopted by the WNA delegates at a recent meeting as I am sure there are details elsewhere in this bulletin. I will say that I do hope that all of you will support the WNA if at all possible. It is for a worthy cause - believe me! There are a lot worse ways to spend \$10. For more information, contact KC9CJ, KA9CPA, W9YCV, or any WNA delegate, or me

MARK YOUR CALENDARS FOR THE WNA PICNIC TO BE HELD SEPT 10TH AT SOUTH WOOD COUNTY PARK NEAR WISCONSIN RAPIDS - DETAILS FORTHCOMING. BE THERE!!

That's it (enuff) for now. Till next time, CU on the nets.

73,
Gene, K9UTQ
Wis. Sect Tfc Mgr.

WISCONSIN NETS

NET	FREQ	UTC	LOCAL	MANAGER
BWN	3984	1100Z	0600	WB9YPY
BEN	3985	1700Z	1200	WB9ESM
WSBN	3985	2200Z	1700	K9ANV
WNN	3723	2300Z	1800	KA9HPB
WSSN	3645	2330Z	1830	KC9CJ
WIN-E	3662	0200Z	1900	W9YCV
WIN-L	3662	0300Z	2200	K9LGU
XPD	3925	1731Z	1231	WA9GYF
NWTN	.34/.94	2330Z	1830	WB9YPY
GR.BAY	.72/.12	THU 0145Z	2045 (wed)	WB9NRK
WCWTN	.31/.91	2330Z	1830	N9AUG

BADGER WEATHER NET - daily 3.984 MHz., 6:00 a.m. local.

Jim Caldwell, WB9YPY
Rte. 6, Box 655
Rhineland, WI 54501

In spite of QRM, BWN has managed to hold every session. All it seems to take is superhuman effort, good ears, about 3 stations strategically placed and a number of 2 meter contacts!

Quarterly stats include:

March	1316 checkins	1459 traffic
April	1365	1528
May	1364	1467

KA9BHK Diane and KA9BHL are in Washington D.C. trying to get the government officials straightened out along with visiting relatives and doing some extensive sight-seeing. Apparently Mike has been unable to straighten out conditions enough to make regular weather reports. They'll be back in time for Field Day at their home QTH.

KB9CV Mark is currently working on the ELF project so we're missing his reports each day. Not only the distance for 2 meters, but the hour of his commuting have made it well nigh impossible.

K9JPS is traveling again - this time canoeing the Wisconsin river. By copying the 2 meter mail, we've heard him at campgrounds, being portaged, and trying to find his lost canteen - sounds like an all-summer project!

Congratulations to KB960 on his new job in Texas. The move takes place in July and we all wish them all the best. Not only do we lose a good reporting station and NCS substitute but also the site of the BWN picnic. We thank John and Melanie for the grand hospitality in the past. Suggestions have been made and N9BGE Don has offered his QTH at Algoma - decision yet to be made.

W9SQJ Charlie and xyl Catherine have been spending lots of time in Marion disposing of a relative's estate. We understand the home has been sold and an auction held, so we hope a lot of the hard work has been completed and their lives can resume a normal pace.

At the most recent WNA meeting in Iola at KA9CPA Bob's home it was decided that for only \$10.00 you, too, can become a WNA Booster! For this paltry sum you will receive monthly issues of Smoke Signals which includes WNA Bulletin AND a copy of the WNA Manual. Many of the delegates at the meeting subscribed immediately, and we hope 100% of our readers will also respond to KC9CJ, Dick who's in charge of the treasury.

We hope to see lots of you at the WNA picnic.

WB9YPY, Jim

EIGHT FROM LATE

from Denny Rybickie, K9LGU, NM, Late WIN
2332 Park Ln.
New Holstein WI

"An Amateur is balanced. Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community."
-- Paul Segal

Many amateurs work daily with radio -- especially the technical aspects. They install equipment, climb towers, design circuits, or work with the hardware of software of computers in communication. I've been fortunate to associate with many of the operators that have expertise because their vocation and avocation are similar, and I've found them quite willing to share their knowledge. I'm sure I've learned more about radio theory from fellow amateurs than from my schoolwork or independent study. Perhaps, after twenty-five years, I should consider sharing some English teacher's knowledge that might help other Amateurs.

One idea that might help, especially in messages, is the limitation of tautologies. The guide in this process is simply this. If you don't need it, don't say it. Here are some common tautologies I've heard or seen in traffic handling. If we can avoid similar wording, we'll save copying time, air time, effort, and perhaps a lot of explaining.

advance planning	correspond back and forth
all meet together	filled to capacity
annual birthday	had done previously
cancel out	I myself personally
capacitator	knots per hour
clearly apparent	necessary prerequisite
consensus of opinion	past history
continue on	skipped over

Finally, in conclusion, reflect back on this true fact, "In Amateur Radio, help stamp out and abolish redundancy."

73 de K9L6U

WISCONSIN INTRASTATE NET (WIN/E)

From NM Les Peterson, W9YCV
9741 W. Howard Ave.
Greenfield WI 53228

WIN/E seems to be experiencing a slump as checkins, traffic and net time is down this past quarter in comparison with a year ago.

N9BDL, W9CBE and K9SAD are the leaders in attendance these days -- Congrats for your fine attendance.

New stations checking into the net are: K9BED, Ralph, here in the Milwaukee area and KA9NKG, Roy, up at Stone Lake. Welcome fellows and let me know when you have met the WNA membership requirements so appropriate certificates can be issued. (Ralph, K9BED, is another satellite chase.

Congratulations to W9ICH, Larry, and his wife on the recent addition to their family. The new arrival has been named Adam Christopher -- A.C. for short.

Word has been received from the 9RN net manager, W9JUV, that help is needed there. Wisconsin is not providing its share to perform the tasks of NCS, CAN RX and TX or as alternates for these jobs. Any net members wanting to build their traffic count or would like to help, please let me know.

At the time of this writing, your NM was worked 46 States on the "Birds" and 44 are confirmed.

Wouldn't you like to see your call mentioned in this publication? It is really quite easy -- just send me a message about your activities, what new DX station you've worked, new bands explored, new equipment added to your station, etc.

Guess that is it for this time.

73, Les, WIN/E NM

NWTV dy 34/94 Rhinelander Repeater 6:30 p.m. local

Jim Caldwell, W89YPY
Rte. 6, Box 655
Rhinelander, WI 54501

Once more the lush Northwoods has worked its magic to bring our summer residents back to the fold, vacationers to cottages or resorts, and campers to the many area sites.

Most recent stats include:

March	444 checkins	43 traffic
April	394	45
May	468	37

KA9BHK Diane and KA9BHL Mike have once again offered their ideal location for Field Day and just from copying the mail, it sounds as though equipment has been loaned, operators have promised to be there, and a fun time is planned by all. As of this date Mike and Diane are in Washington, D. C. for an extended visit with relatives and much sightseeing along with trying to straighten out the politicians!

W89YPY and Z Jim and Pat along with N9BDL and xyl Lois attended the recent WNA meeting at Iola. As always we gained from the input, greeted some new faces and came home enthusiastic about Wisconsin Nets and good ham fellowship.

Because WNA prefers having one person represent one net only, NWTN is in the process of transferring net managership to N9BDL, Lee who has been an able assistant for a long time.

K9BTP Bill is our new ARES rep and has been busy updating membership cards and info sheets so that in the event of called activity, he'll be able to make assignments more quickly.

N9CUS, Barb continues her good bowling record, earning both monetary awards and good publicity.

K89GD John and Family will move soon to Texas where John has accepted a new position. We'll miss the whole family but wish them loads of success.

Following a hospital stay and a painful recuperation, we're happy to report that W9ZZZ is again able to be at his regular place of business - be sure to wave when you go past!

If your in the Rhinelander area and want to eyeball some local hams, try having breakfast at the the Pub on Brown Street any Saturday morning at 8:00 a.m. The number of bodies varies from 4 to 20. We doubt you'd have trouble finding us - just look around to where the tables are pulled together, spot an HT or locate the noisiest group - we've been know to have Board meetings at breakfast! Stop in - we'd love to see you.

After two nine-month-count-downs, W89YPY and Z Jim and Pat have been presented with 2 grandsons - Scott in Green Lake on June 2, and Dane in Phoenix on June 16. We're happy to report that babies and parents are doing well - we're not so sure about the grandparents.

Have a good summer!

W89YPY Jim

GREEN BAY AREA 2 METER NET

NM Dale Johnson, W89NRK
1608 Amy St., Apt. 1
Green Bay, WI 54302

Hello, summer is here. Hope all have a wonderful and safe summer.

M	M	A	RRRR	A
MM	MM	A A	R R	A A
M M	M M	A A	RRRR	A A
M M M M	AAAAAAA	R R	AAAAAAA	
M M M	A A	R R		A
M M M				

PPPP	I	CCCC	N N	I	CCCC
P P	I	C	NN N	I	C
PPPP	I	C	N N N	I	C
P	I	C	N N N	I	C
P	I	CCCC	N NN	I	CCCC

SUNDAY, JULY 24

3 PM - ???

FESTGE PARK

1 mile west of Cross Plains
off Highway 14 on Festge Park Road.

Bring a dish to pass and your
own meat. Cooking fire and
beverages will be provided. Park
has nature Trails and slide and
swing sets. Has toilet
facilities and running water.

Ball diamond -- bring your own
bats, balls and mitts.

With the higher temperatures and more sunny days, more of us are outdoors. With outdoor activities increasing, more decreases of checkins of local and state nets will occur. So please remember our nets, we need your support.

I will be mobile the first week of August in Grand Maris, Minn., so please listen for a weak signal from Cook County, Minn.

Hope to work you in mobile operation during this summer.

73, Dale Johnson, WB9NRK

It is with a very heavy heart that I report the death of my mother, Ethel Luckey, on Monday, June 20. She was buried today (June 23) in Oak Hill Cemetery near North Freedom. This mom was a little special in our family. She and my late father saw me through a session with Polio in 1955, which has me hospitalized for six months. She never missed a visiting day, and for the past few years, things turned the other way as her health began to fail.

She was a musician at the Circus World Museum here in Baraboo, putting in 20 years there, and helping the museum to build its fine reputation as the Circus Research Center of the World.

She was always at my side when I had problems, and I'm glad I did have the chance to return the favor by helping her through the last three troubled years of her life.

Mom had class and she showed it right to her last day. My sister, Mary and I were present when she died. Mothers have their own special way of helping to heal hurts, and mine was no exception. She will be deeply missed by both my sister and myself, along with the hundreds of friends gained at the museum and in other walks of life.

She encouraged me to get my feet wet in this hobby in 1958, and many Baraboo and Portage area Amateurs were good friends of mom's too.

There's not much more to say but 73 and 88 to her, and we hope to be rejoined with her someday.

Jim Romelfanger, K9ZZ
1414 Martiny Ct. #6
Baraboo, Wisconsin 53913

* 1983 WISCONSIN QSO PARTY RESULTS							WISCONSIN STATIONS *	
CALL	SECTION	CW	PHONE	MULT	SCORE		CLUB	
W9DDV	SHEBOYGAN		4	3	12		SHEBOYGAN	
WD9HTG	WAUKESHA		15	5	75		WEST ALLIS RAC	
N9DIJ	MILWAKEE		16	6	96		W/K OF MILWAUKEE	
KA9GAZ	MILWAKEE	15	25	7	385		W/K OF MILWAUKEE	
K9FWN	SHAWANO		24	17	408		FRANKLIN SCHOOL	
WB9NRK	BROWN		29	20	580			
W9DMI	MILWAUKEE	25	4	14	756		W/K OF MILWAUKEE	
W9FJE	MILWAUKEE		37	23	851		WEST ALLIS RAC	
W9CBE	DANE	11	23	19	855			
WB9GZP	MILWAUKEE		50	25	1,250		WEST ALLIS RAC	
W9DU	ADAMS	34		21	1,428			
N9TD	JEFFERSON	22	26	23	1,610			
K9FHI	DODGE		61	31	1,890		ROCK RIVER ARC	
WB9LKC	PORTAGE	15	45	26	1,950		CENTRAL WISCONSIN	
K9KR	RACINE	13	46	33	2,376		WEST ALLIS RAC	
K9JIG	EAU CLAIRE		74	34	2,516		EAU CLAIRE ARC	
K9SAO			70	36	2,520			
KR9R	SHEBOYGAN	1	71	37	2,701		SHEBOYGAN	
WB9YHB	DANE		79	36	2,844		BADGER	
WB9TDC	FOND DU LAC	14	86	33	3,762		BADGER	
W9YCV	MILWAUKEE	16	93	43	5,375		WEST ALLIS RAC	
KA9IKR	PRICE		112	48	5,376			
WA9YRL	RACINE		113	48	5,424			
W9MP	BARRON		119	50	5,950			
KC9WD	SHAWANO		120	51	6,120		FRANKLIN SCHOOL	
WB9AZH	WAUKESHA	22	102	42	6,132		KETTLE MORAIN	
N9BMS	"MOBILE"	32	82	30	6,380			
WB9HGS	MILWAUKEE		123	52	6,396		WEST ALLIS RAC	
W9HE	WAUKESHA	91		41	7,462		KETTLE MORAIN	
KA9LWN	SHAWANO	59	54	46	7,912		FRANKLIN SCHOOL	
WA9TZE	MILWAUKEE	43	107	42	8,106		W/K OF MILWAUKEE	
WB9SAU	CALUMET		142	59	8,378		NEENAH-MENASHA	
KA9LWO	SHAWANO		157	59	9,263		FRANKLIN SCHOOL	
W9NA	MARATHON	74	46	49	9,506		WIS VALLEY	
AE9K	WAUKESHA	77	65	49	10,731		W/K OF MILWAUKEE	
WB9YSD	WINNEBAGO	48	94	57	10,830		BADGER	
WB9ICH	"MOBILE"	40	114	57	11,165			
W9CHD	LINCOLN	97	47	48	11,568		MILWAKEE RAC	
KB9W	POLK	85	49	53	11,607		EAU CLAIRE ARC	
K9DZG	"MOBILE"	79	58	48	11,868			
N9BBN	JUNEAU	22	166	59	12,390		ARC OF CENT WIS	
WA9YSD	MILWAUKEE	107	15	55	12,595		WEST ALLIS RAC	
K9WTF	WAUKESHA		208	61	13,188		WEST ALLIS RAC	
K9BED	MILWAUKEE	104	38	54	13,284		W/K OF MILWAUKEE	
KB9WC			228	62	14,136		GREEN FOX ARC	
KB9QL	MILWAUKEE		217	71	15,407		W/K OF MILWAUKEE	
WB9TNF	MILWAUKEE		223	78	17,394		W/K OF MILWAUKEE	
AJ9U	MILWAUKEE	109	96	59	18,526		W/K OF MILWAUKEE	
N9AUG	EAU CLAIRE	113	64	65	18,850		EAU CLAIRE ARC	
K9LJN	ROCK	129	95	56	19,768			
WB9JBF	MILWAUKEE	80	160	68	22,032		W/K OF MILWAUKEE	
KA9KKU	MILWAUKEE	27	228	82	23,124		W/K OF MILWAUKEE	
WA9UJU	WAUKESHA	117	110	68	23,392			
KC9SM			293	81	23,733			
N9HR	"MOBILE"		329	51	23,779		WEST ALLIS RAC	
N9AW	MILWAUKEE	93	159	70	24,150		W/K OF MILWAUKEE	
WB9RRU	DANE	55	222	76	25,232		BADGER	
KC9JP	DANE	2	382	67	25,862		4 LAKES ARC	
N9DIH	MILWAUKEE	99	146	76	26,144		W/K OF MILWAUKEE	
K9ZZ	COLUMBIA	133	108	74	27,676		YELLOW THUNDER	
WA9BZW	SHAWANO		328	91	29,211		FRANKLIN SCHOOL	
W9WI	DANE	108	183	84	33,516		BADGER	
N9AU	MILWAUKEE	78	255	82	33,702		WEST ALLIS RAC	
KB9S	PEPIN	127	173	80	34,160			
K090	SHEBOYGAN	102	227	80	34,480		SHEBOYGAN CO ARC	
K9EC	EAU CLAIRE	73	309	88	40,040		BADGER	
W9YT	DANE	102	293	82	40,754		BADGER	
K9GDF	MILWAUKEE	143	233	81	42,039		W/K OF MILWAUKEE	
AC9C	SAWYER	119	312	86	47,300		BADGER	

TOP CLUB SCORES

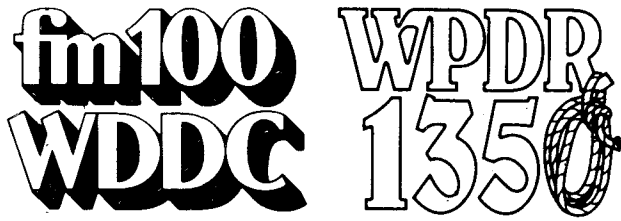
W/K OF MILWAUKEE	222,174
BADGER ARS	204,278
WEST ALLIS RAC	99,587
FRANKLIN MIDDLE SCHOOL ARC	52,914

* 1983 WISCONSIN QSO PARTY RESULTS NON-WISCONSIN STATIONS *					
CALL	SECTION	CW	PHONE	MULT	SCORE
WA4VEK	ALABAMA		15	10	150
N4DKD	ALABAMA	27		11	594
W6NNV	CALIFORNIA	21		11	462
W6LEN	CALIFORNIA	24		13	624
KV0E	COLORADO	21		14	588
N0BSA	COLORADO	29	34	20	1,840
K1BV	CONNECTICUT	20	18	14	812
K3JL	DELAWARE	22	29	22	1,606
K4DDB	FLORIDA	6	2	14	70
KB9TI	ILLINOIS		59	25	1,475
K9BG	ILLINOIS	48	38	29	3,886
KU9G	ILLINOIS	61	42	34	5,576
WA0AVG	IOWA	13		11	286
N0CLV	KANSAS	15	7	13	481
W5WG	LOUISIANA	36	15	16	1,392
WA1UDH	MASSACHUTES	21	16	14	812
KA1CLV	MASSACHUTES	27	14	18	1,224
WB8ODN	MICHIGAN	18	49	26	2,210
KC8P	MICHIGAN	9	94	32	3,584
KD8I	MICHIGAN	23	63	35	3,815
WB8WKD	MICHIGAN	35	94	36	5,904
A88M	MICHIGAN	49	72	39	6,630
N0CZB	MINNESOTA		49	25	1,225
AF1T	N HAMPSHIRE		26	15	390
W0JJL	NEBRASKA	29	31	22	1,958
WB8ZRL	NEBRASKA	34	22	27	2,430
KA7GXO	NEVADA		3	3	9
KB5DQ	NEW MEXICO		16	12	192
W5TGU	NEW MEXICO		21	12	252
WB2IPX	NEW YORK	22		11	484
W2EZ	NEW YORK	21		13	546
K2POF	NEW YORK	32	35	21	2,079
WB0VKI	NO DAKOTA		59	32	1,888
W8EAO	OHIO	23		11	506
K8ATQ	OHIO	38	28	26	2,704
NSAFV	OKLAHOMA	19	30	16	1,088
VE3KK	ONTARIO	30		14	840
WB7VBQ	OREGON		1	1	1
WA3JXW	PENNSYLVANIA		14	7	98
KH6CP/3	PENNSYLVANIA	15	19	11	539
WA3UNX	PENNSYLVANIA	24	5	12	636
WA3HAE	PENNSYLVANIA		135	27	3,645
KC0ZU	SO DAKOTA		2	2	4
W0WUU	SO DAKOTA		15	9	135
W5NR	TEXAS	12		9	216
N5DQ	TEXAS	21	11	14	742
WD5DEQ	TEXAS	39	5	16	1,328
K5LZO	TEXAS	45	38	23	2,944
N4MM	VIRGINIA		17	9	153
W3IJT	W VIRGINIA		27	13	351

SOAPBOX

Thanks for a good contest. I like your format and believe it encouraged activity -K9UG, ILLINOIS; Thanks for a very enjoyable contest. It is the only one I enter each year, and Wisconsin hams make me feel welcome as a participant. Special thanks to N9HR/Mobile who offers us otherwise unheard from counties. -WB0VKI N. DAKOTA; How about allowing mobiles to count county multipliers on each band worked? A later finish time (8-9pm) would probably increase out of state activity levels. 7-8 hour length is perfect -AC9C, SAWYER CTY; Thanks for a great contest -K09Q, SHEBOYGAN CTY; The only problem I had was that there was no time to work 75m. I was just beginning to copy a few stations when time was up-still was a great QSO party though -K3JL, DELAWARE; This is my first contest -N0ZB, MINNESOTA; An excellent contest on a good weekend. I liked the short format but would prefer 12-8pm time slot -WB9YPE, DANE CTY; This contest needs more operation from rare counties -W9CHD, LINCOLN CTY; 80m was a little disappointing; suggest 12-7pm next year -N9BBN, JUNEAU CTY.

YTARC BOOSTERS' CLUB



PORTAGE, WI



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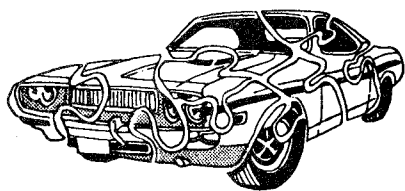
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